

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF A TRAFFIC SIGNAL WITH INTERCONNECT AT THE INTERSECTION OF MD 528 AND CHANNEL BOUY ROAD IN WORCHESTER COUNTY.

INTERSECTION OPERATION

THE EXISTING CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL REMAIN AT THIS LOCATION. THE INTERSECTION OPERATES IN A FULLY ACTUATED MODE USING 5 NEMA PHASES AND SHALL NOT BE CHANGED. VIDEO DETECTION SHALL BE INSTALLED FOR ACTUATION OF MD 528 LEFT TURN MOVEMENTS AND CHANNEL BUOY ROAD SIDE STREET PRESENCE DETECTION.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630  
GENE COFIELL, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 677-4040  
RAVINDRA GANVIR, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
PHONE: (410) 677-4020  
JAMES R. WRIGHT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 677-4010  
BRUCE W. POOLE, UTILITY ENGINEER  
PHONE: (410) 677-4082

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR FOLLOWING MSHA STANDARD PLATES FOR TRAFFIC CONTROL.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9086	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS	EA	1
9575	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGNS CONSISTING OF: R10-12 (30"x36") MAST ARM MOUNT R10-12(1) (30"x36") MAST ARM MOUNT R3-17(MOD) (30"x36") MAST ARM MOUNT D-3(2) (16" X VAR.) MAST ARM MOUNT	SF EA EA EA EA EA	52 1 1 2 2 2

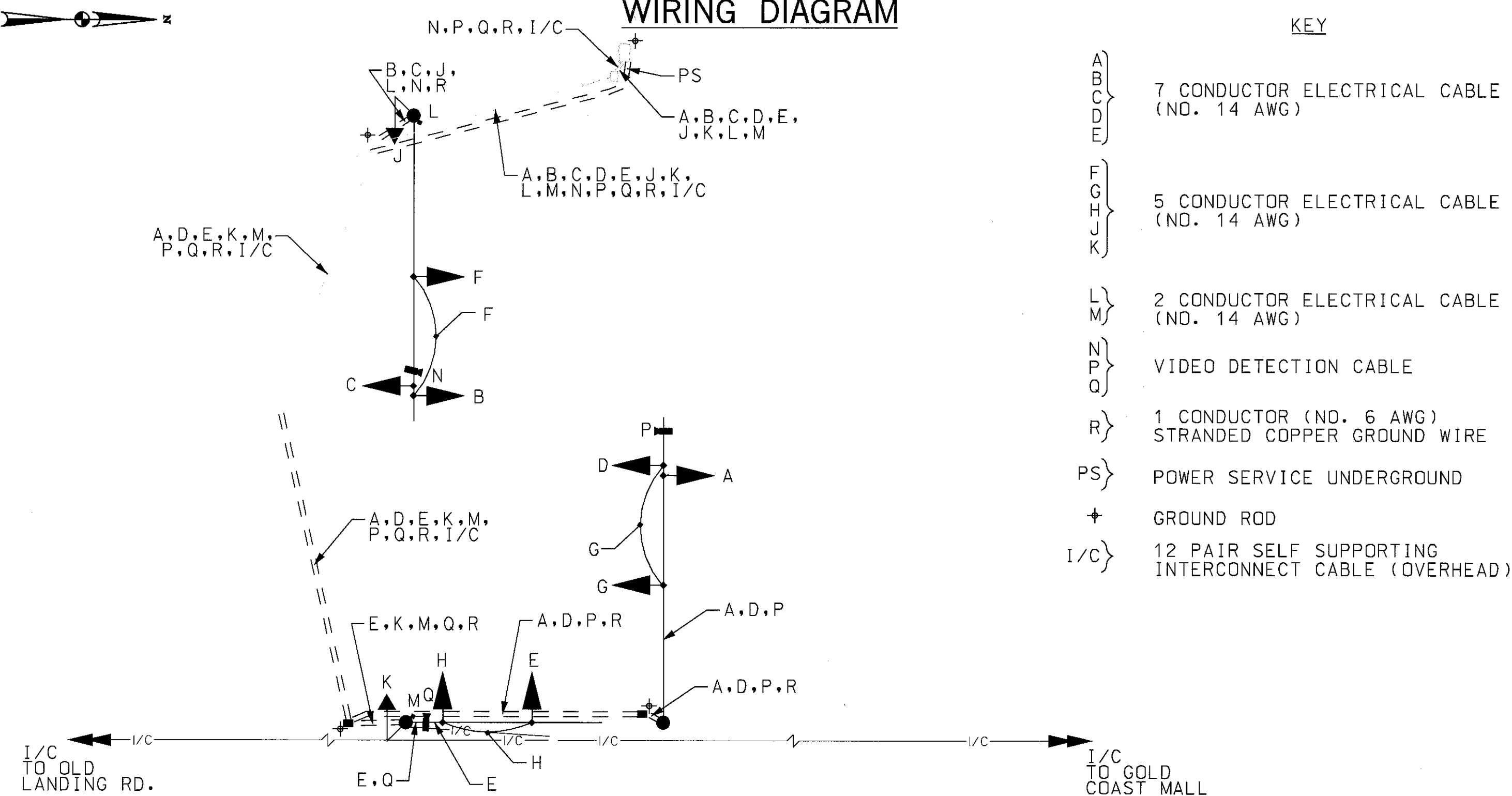
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	3
2001	CLASS II EXCAVATION	CY	36
2002	TEST PIT EXCAVATION	CY	2
5005	12 INCH HEAT APPL. WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKINGS	LF	250
6002	STANDARD TYPE A COMBINATION CURB & GUTTER 12 IN. GUTTER PAN 8 IN. DEPTH	LF	30
6004	4 IN. CONCRETE SIDEWALK	SF	490
8001	CONCRETE FOUNDATION	CY	14
8008	CONTROL CABLE, 200 FOOT, VIDEO DETECTION	EA	1
8009	CONTROL CABLE, 300 FOOT, VIDEO DETECTION	EA	1
8010	CONTROL CABLE, 400 FOOT, VIDEO DETECTION	EA	1
8015	MAST ARM POLE (15' T) & 60 FT MAST ARM	EA	2
8021	REM & DISPOSE MAT & EQUIP PER ASSIGN	EA	1
8022	REMOVE CONCRETE FOUNDATION 12 INCHES	EA	4
8029	DETECTABLE WARNING SURFACES	SF	16
8033	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	290
8041	3 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	100
8044	4 INCH SCHED. 80 PVC CONDUIT-SLOTTED	LF	130
8054	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	2
8057	INSTALL OVERHEAD SIGN	SF	52
8058	VIDEO DETECTION CAMERA	EA	3
8069	12-PAIR COMMUNICATION CABLE, SELF SUPPORTING (OVERHEAD)	LF	2900
8076	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	4
8077	8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	6
8078	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	26
8081	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	EA	1
8084	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	280
8086	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	370
8087	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	1235
8091	PUSHBUTTON AND SIGN	EA	2
8099A	LED COUNTDOWN PEDESTRIAN SIGNAL HEAD	EA	2
NEG.	MAST ARM POLE (15' T) & 38 FT MAST ARM	EA	1
NEG.	SAWCUT	LF	30

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
	NONE		

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	
PHASE 1 AND 5	+GR	+GR	R	+GR	+GR	R	R	R	DW	DW	
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6											
PHASE 1 AND 6	+GG	+GG	G	R	R	G	R	R	DW	DW	
1 AND 6 CHANGE	+YG	+YG	G	R	R	G	R	R	DW	DW	
PHASE 2 AND 5	R	R	R	+GG	+GG	R	R	R	DW	DW	
2 AND 5 CHANGE	R	R	R	+GG	+GG	R	R	R	DW	DW	
PHASE 2 AND 6	G	G	G	G	G	G	R	R	DW	DW	
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	DW	DW	
PHASE 4	R	R	R	R	R	R	G	G	DW	DW	
4 CHANGE	R	R	R	R	R	R	Y	Y	DW	DW	
PHASE 4 ALT	R	R	R	R	R	R	G	G	WK	WK	
PED CLEARANCE	R	R	R	R	R	R	G	G	FL/DW	FL/DW	
4 ALT CHANGE	R	R	R	R	R	R	Y	Y	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	

SHA# WD424501/0310 TCD# AT355185-08

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
**MD 528 AND  
CHANNEL BOUY ROAD**

GENERAL INFORMATION PLAN

SCALE 1"=20' DATE 11/01/04 CONTRACT NO. AT355185

DESIGNED BY C.FLEMING COUNTY WORCHESTER  
DRAWN BY C.FLEMING LOGMILE 23052802.34  
CHECKED BY J.WEAVER T.I.M.S. NO. G224  
F.A.P. NO. TOD NO.

DRAWING NO. TS - 1430F SHEET NO. 2 OF 2

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